# GRANUDOS-VARIO-PLUS V80-TOUCH

## FUNCTION DESCRIPTION

Dosing system for the production of a chlorine solution from calcium hypochlorite to disinfect multiple pool complexes.

The unit doses chlorine granulate directly from the chlorine drum to produce a pH-neutral chlorine solution (max. 3,5 g Cl/l) that is conveyed into a buffer tank of the feed system. Chlorine and acid, which is necessary for the neutralisation, are dosed separately in intervals to the dissolving system from where the chlorine solution is conveyed by a venturi nozzle to the buffer tank.

The GRANUDOS-VARIO-PLUS-V80-TOUCH system consists of a basic unit with different booster pumps and additionally a dosing unit with different dosing performances and hopper sizes respectively adapters for different chlorine drums. Therefore an individual configuration of the systems according to the project requirements is possible.

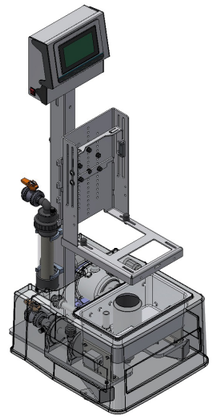
Various options such as a multi-hopper or a dust extraction system are available separately.



Fig.: GRANUDOS-VARIO-PLUS-V80-TOUCH with option dust extraction

## SCOPE OF DELIVERY OF A COMPLETE PACKAGE

### BASIC SYSTEM



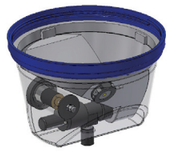
**Vertical support:** Rotating drum carrier steel, zinc and blue powder coated, drum fixing device with clamp bands and safety belt.

**Acid dosing:** Peristaltic dosing pump, suction lance with empty report of the canister, dosing valve ⅜“ in the dissolving system.

**Dissolving system:** Pre-filter d 75, flushing tank, booster pump app. 1000 l/h at 1,2 bar, venturi, mixing cyclone. Monitoring of the pump by pressure switch. Monitoring of the suction performance of the venturi. Level monitoring in the flushing tank.

**Control techniques TOUCH:**
Operation and visualisation via coloured 7“ Touch-Graphic display. This enables simple and clearly arranged user guidance of the screen. Faults and alarms are illustrated by self- explaining icons. Stepless adjustment of dosing performances chlorine and acid. Relay system to assure dosing of only chlorine or acid or none. Switch-off of the dosing at malfunction. With integrated meter for chlorine consumption and event storage (data logging).
**Interface:** Modbus TCP, USB for data export.
**Remote indication via browser driven devices** (e.g. tablet or smartphone, not incl.): Indication of the current operational states, errors and alarms.

### DOSING UNIT CHLORINE



- Dosing hopper for chlorine granulate (for different-drum types/ chlorine drum must be specified when-ordering)
- Dosing motor (with 35 Upm or 60 Upm)
- Dosing screw
- Knocker to support the dosing
- Capacitive switch for empty monitoring of the drum

### DRUM HOLDER



- Drum holder FH3 complete (suitable for all drums except HTH 25 kg/40 kg)

## TECHNICAL DATA

| | |
|---|---|
| Electrical supply | 230 V/AC 50 Hz |
| Power supply | 390 W |
| Water supply | DN20 |
| Water outlet to injection point | DN20 |
| Measures (W/H/D) | 600 x 1400 x 700 mm |
| Weight | app. 50 kg |
| Dosing performance chlorine | GR 45: 0,2 - 2 kg/h<br>GR 100: 0,4 - 4 kg/h |
| Dosing performance acid | 3 l/h |
| Pre-pressure min. | 0,2 bar |
| Back-pressure max. | 1,2 bar (optional 1,8 bar) |

## TO BE PROVIDED BY THE BUILDER

- Power supply
- Supply tubing and tubing to the injection point
- Tubing of the overflow to the drain

## ACCESSORIES / OPTIONS

- Multihopper
- Dust extraction for dusty chlorine granulate material
- Drum lifter for chlorine drums
- Container GR 150 for very high chlorine demand
- Feed system GRANUDOS-Plus
- Dosing nozzle closure
- Autocontrol systems



Fig.: Multihopper